Application No.: 10/577,495

## AMENDMENTS TO THE CLAIMS:

Please amend claims 1 and 4 as set forth below. The claim listing below replaces all prior versions of the claims in the application.

(Currently Amended) A liquid discriminating apparatus comprising:

a concentration detecting device that calculates a concentration of a liquid reducing agent based on heat transfer characteristics between two positions spaced apart from each other in a storage tank that stores a liquid supplied to a nitrogen oxide reduction catalytic converter disposed in an engine exhaust system; and

a control unit that counts up a <u>number of times frequency at which</u> the concentration calculated by said concentration detecting device becomes equal to or less than 0% and discriminates a type of the liquid in said storage tank,

wherein said control unit discriminates that the liquid in said storage tank is water when the counted <u>number of times</u> frequency is greater than or equal to a predetermined frequency greater than 1, discriminates that the liquid in said storage tank is the liquid reducing agent when the concentration calculated by said concentration detecting device is more than 0% and equal to or less than a predetermined concentration, and discriminates that said storage tank is empty when the concentration calculated by said concentration detecting device is more than the predetermined concentration.

## 2. (Canceled)

 (Previously Presented) The apparatus according to claim 1, further comprising a display device that visibly displays the discrimination result of said control unit. 4. (Currently Amended) A liquid discriminating method, comprising:

calculating a concentration of a liquid reducing agent based on heat transfer characteristics between two positions spaced apart from each other in a storage tank that stores a liquid supplied to a nitrogen oxide reduction catalytic converter disposed in an engine exhaust system;

counting up a <u>number of times</u> <del>frequency at which</del> the calculated concentration becomes equal to or less than 0%:

discriminating that the liquid in said storage tank is water when the counted <u>number of</u>

<u>times frequency</u> is greater than or equal to a predetermined frequency greater than 1;

discriminating that the liquid in said storage tank is the liquid reducing agent when the calculated concentration is more than 0% and equal to or less than a predetermined concentration; and

discriminating that said storage tank is empty when the calculated concentration is more than the predetermined concentration.